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# Portable CD with 40 Second Anti-Shock and Car Kit



Owner's Manual
Please read before using this equipment.

## ☐ Features

Your RadioShack Portable CD Player uses the latest digital audio technology to deliver the clean, crisp sound of compact discs. You can use the supplied lightweight headphones for private listening, or you can connect the CD player to your home audio or vehicle's sound system using an optional adapter.

Super Anti-Shock System — rapidly scans 40 seconds of data from the CD and stores it in memory for uninterrupted play with no sound skip, even when the CD player is exposed to shocks or vibration. This makes this CD player excellent for use in your vehicle.

**Car Kit** — DC adapter and CD-to-cassette adapter allow you to enjoy this CD player in your vehicle.

**6-Digit Liquid Crystal Display (LCD)** — lets you view the playing status.

**Backlight** — lets you view operation easily at night.

**Extended (E-) Bass System** — creates a fuller bass sound.

**Repeat Play** — lets you automatically repeat a single track, an entire CD, or a programmed sequence.

**Programmable Play** — lets you program and play up to 20 tracks in any sequence you choose.

**Auto Power Off** — automatically turns the CD player off 30 seconds after it finishes playing, or when you press **STOP** (without pressing another button), to help preserve battery life.

Three Power Sources — let you power your CD player from two standard AA batteries (or special rechargeable Ni-Cd batteries, RSU 11672508), your vehicle's battery using the supplied car kit, or standard AC power, using an optional regulated AC adapter.

**1-Bit DAC** — uses the latest in digital-to-analog conversion circuitry to accurately reproduce all sound levels with virtually no distortion.

**Eight-Times Over-sampling with Digital Filtering** — improves the CD's sound by multiplying the standard 44.1 kHz sample rate by eight and using a digital filter to reduce or eliminate distortion.

**Intro Scan** — scans and plays the first 10 seconds of each track, so you can find a specific track.

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**Random Play** — lets you randomly select and play tracks from the loaded CD in the player.

**Hold** — prevents accidentally changing the CD player's control settings during play and preserves battery life by locking most controls.

**Charge Indicator** — lets you monitor charging status.

**Phones Jack** — lets you connect your CD player to optional headphones, earphones, or speakers.

**Line Out Jack** — makes it easy to connect the CD player to a sound system's low-level inputs.

Automatic Search Music System (ASMS) — lets you quickly locate and play any track on a CD.

**Fourteen-Hour Battery Life** — lets you play your CD player for up to 14 hours on just two fresh alkaline AA batteries (with the anti-shock feature turned off).

**5-Inch or 3-Inch CD Compatible** — lets you play either size CD in your CD player.

CDs that can be played on this CD player have this mark on them:



The CD player's advanced technology makes it simple to operate. However, be sure you read this Owner's Manual completely so you can take advantage of all its advanced features.

## ☐ The FCC Wants You to Know

This CD player has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

 Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Consult your local RadioShack store or an experienced radio/TV technician for help.
- If you cannot eliminate the interference, the FCC requires that you stop using your CD player.

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

You must use shielded interface cables with this equipment.

#### Warnings:

- This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- Using controls, making adjustments, or initiating procedures other than those specified in this owner's manual might result in hazardous radiation exposure.

## ☐ Powering the CD Player

You can power your CD player from any of these sources:

- Two AA alkaline batteries (not supplied)
- Two rechargeable AA nickel-cadmium (Ni-Cd) batteries, RSU 11672508 (not supplied)
- Vehicle battery power using the supplied car kit's DC adapter
- Standard AC power using a regulated AC adapter (not supplied)

**Note:** The CD player senses whether or not the batteries you install are rechargeable and turns on the charging circuit or disconnects the batteries accordingly.

#### **USING BATTERIES**

Your CD player can use two AA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

You can also use rechargeable Ni-Cd batteries, RSU 11672508, to power your CD player.

#### Cautions:

- Use only fresh (or freshly charged) batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable),

or rechargeable batteries of different capacities.

**Note:** Before you use the CD player with Ni-Cd batteries, you need to charge them, either in an external battery charger (available at your local RadioShack store) or in the CD player (see "Charging Nickel-Cadmium Batteries").

 Slide the battery compartment cover in the direction of the arrow and lift it up.

**Caution:** The battery compartment cover is hinged. Do not try to remove it.

- Place the batteries on top of the attached ribbon in the compartment, as indicated by the polarity symbols (+ and -) marked above the compartment.
- 3. Replace the cover.

When appears, the sound becomes weak or distorted, or the CD player stops operating properly, replace the batteries.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use the CD player with batteries for a month or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Charging Nickel-Cadmium Batteries

If you connect a regulated AC or DC adapter to the CD player (see "Using AC or DC Power" on Page 6), you can set the CD player to charge Ni-Cd batteries (RSU 11672508) inside the CD player's battery compartment.

#### Cautions:

- Use only a regulated AC or DC adapter that meets the specifications in "Using AC or DC Power" on Page 6 to recharge the batteries in the CD player. Other adapters could damage your CD player or the batteries.
- Ni-Cd batteries charge more efficiently if the temperature is above 40°F (4.5°C) and below 90°F (32°C).
- Connect a regulated AC or DC adapter to your CD player.
- Place two Ni-Cd batteries on top of the attached ribbon in the compartment, as indicated by the polarity symbols (+ and -) marked above the compartment.

The CD player starts to charge the batteries. Charging takes about 14 hours.

**Note:** While charging the rechargeable Ni-Cd batteries, the CHARGE indicator lights.

3. When the batteries are fully charged, disconnect the adapter.

**Important:** The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates



RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. RadioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.

# USING AC OR DC POWER

You can power the CD player using the supplied DC adapter or a 4.5V, 600 mA, regulated AC adapter and a size B Adaptaplug<sup>™</sup> connector (neither supplied, available at your local RadioShack store).

#### Cautions:



You must use a power source (Class 2 for AC) that supplies 4.5 DC

and delivers at least 600 mA. Its center tip must be set to positive and its plug must fit the CD player's **DC IN 4.5V** jack. Using an adapter that does not meet these specifications could damage the CD player or the adapter.

- Always connect the adapter to the CD player before you connect it to power. When you finish, disconnect the adapter from power before you disconnect it from the CD player.
- If you use an AC adapter, insert the Adaptaplug into the adapter's cord so it reads TIP +.
- 2. Set the adapter's voltage switch to 4.5V, as necessary.
- 3. Insert the barrel plug into the CD player's **DC IN 4.5V** jack.

 Plug the other end of the adapter into a standard AC outlet or a 12V power source.

## ☐ Connections

You can listen to your CD player by connecting the supplied head-phones, optional earphones, or optional amplified speakers to the CD player's **PHONES** jack, or by connecting a home audio or vehicle's sound system to the CD player's **LINE OUT** jack.

**Note:** Your local RadioShack store carries a wide variety of cable and adapters.

#### CONNECTING EARPHONES OR HEADPHONES

For private listening, connect the supplied headphones or optional earphone with a ½-inch (3.5mm) plug to the **PHONES** jack.

#### **Listening Safely**

To protect your hearing, follow these guidelines when you use an earphone or headphones.

• Set the volume to the lowest setting before you begin listening.

- After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended highvolume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

#### **Traffic Safety**

Do not wear an earphone or headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones or headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

#### CONNECTING AMPLIFIED SPEAKERS

To listen to your CD player through amplified speakers, plug the speaker cable's ½-inch (3.5-mm) plug into the CD player's **PHONES** jack.

# CONNECTING TO A HOME AUDIO SYSTEM

To listen to your CD player through your home audio system's amplifier/receiver and full-size speakers, connect an optional Y-cable's <sup>1</sup>/<sub>8</sub>-inch (3.5-mm) plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to your audio system's left and right CD, AUX, or TV audio input jacks.

# CONNECTING TO AN AUTO SOUND SYSTEM

You can listen to your CD player through your vehicle's sound system in these ways:

- If your auto sound system has a cassette deck, connect the supplied CD-to-cassette adapter's plug to the CD player's LINE OUT jack. Then insert the cassette end of the adapter into your cassette deck just like a standard cassette.
- If your auto sound system has LINE IN jacks, connect an optional Y-cable's <sup>1</sup>/<sub>8</sub>-inch (3.5mm) plug to the CD player's LINE

**OUT** jack. Then connect the Y-cable's phono plugs to your auto sound system's LINE IN input jacks.

 If your auto sound system has a CD input jack, connect one end of a <sup>1</sup>/<sub>8</sub>-inch (3.5-mm) stereo patch cable to the CD player's LINE OUT jack. Then connect the other end to your auto sound system's CD INPUT jack. To avoid sound distortion, set VOL to the lowest comfortable listening level and adjust it as necessary.

**Note:** You can mount your CD player in your car using an optional mounting bracket. Your local RadioShack store has a complete line of mounting brackets and hardware.

## Operation

#### **LOADING A CD**

#### Cautions:

- Remove the protective sheet inside the CD compartment before operating the CD player.
- To help prevent dust from entering the CD player, always keep the CD compartment cover closed except when loading or unloading CDs.
- Slide OPEN in the direction of the arrow and lift the CD compartment cover. OPEN appears.
- Carefully place a CD, label side up, over the center hub inside the CD compartment. Then gently press the CD down over the enter hub.
- 3. Close the compartment cover. --, the total number of tracks, and playing time appear briefly, then the CD begins play.

**Note:** To remove a CD, press the center hub's button and lift the CD.

#### PLAYING A CD

Press ▶■. The CD player automatically turns on, (the anti-shock icon) appears, -- flashes, then the total number of tracks and total elapsed

playing time appear briefly. Track 1 begins to play.

If there is no CD loaded and you press **>III**, diSC appears. Load a CD and continue.

If you connected an earphone, headphones, or amplified speakers to the CD player's **PHONES** jack, use **VOL** on the CD player to adjust the volume.

If you connected the CD player to your home audio system or vehicle's sound system using the LINE OUT jack, you must use the home audio or auto sound system's volume control to adjust the volume.

To temporarily stop play, press ▶■. The elapsed time flashes. To resume play, press ▶■ again.

When the last track finishes playing, the CD stops and the display shows the total number of tracks and total playing time of the CD for about 30 seconds, then the CD player automatically turns off. To turn it off sooner, press .

# Using Super Anti-Shock System (SAS)

Your CD player has a special circuit to overcome sound skipping problems caused by shock or vibration. This means you can carry the CD player anywhere you go, or use it in your vehicle. When you turn on the anti-shock system, the CD player continuously saves 40 seconds of music in its memory. During a shock or vibration that would normally make a track skip or pause, the CD player plays directly from memory.

The CD player is preset to turn on the anti-shock system at start up. Repeatedly press **SAS** to turn anti-shock on or off. appears when anti-shock is on.

#### Notes:

- The CD player consumes additional battery power when you use the anti-shock system. When you use the CD player in a stable location, turn off anti-shock to save battery power.
- When you press SAS to turn antishock on or off, the CD player's sound briefly cuts out for about 2 seconds.

# Using Automatic Search Music System (ASMS)

You can use ASMS before or during regular or programmed play to quickly locate any track on a CD.

While the CD is stopped, repeatedly press 

or 

to move backward or forward to the desired track. Press 

to play the track.

During play, press 

to return to the beginning of the current track. Press 

twice to return to the beginning of the previous track. To move to the beginning of the next track, press 

.

#### **Using E-Bass**

To enhance the bass sound, slide E-BASS ON/OFF to ON. To return to normal bass sound, slide E-BASS ON/OFF to OFF.

#### **Using Audible Search**

To search backward or forward during play, hold down **⋈** or **⋈**. The CD plays rapidly and you hear the sound at a faster speed and lower volume. The current track's elapsed time appears on the display.

Release  $\bowtie$  or  $\bowtie$  to resume normal play.

Note: If you hold down ▶ while the last track is playing, audible search stops at the end of the last track. If you hold down ◄ during the first track, audible search stops at the beginning of the first track, then starts playing track 1.

#### **Using Intro Scan**

You can set the CD player to play the first 10 seconds of each track on the CD, so you can find the track you want to listen to.

To begin intro scan while a CD is playing, press MODE until INTRO flashes. Intro scan starts after the current track ends.

To begin intro scan from the first track, press MODE until INTRO appears, then press ▶■. Intro scan starts from the first track.

**Note:** You can use **⋈** or **⋈** to skip through the tracks during Intro scan.

#### **Using Repeat Play**

You can repeat a single track on the CD, all tracks on the CD, or a programmed sequence (see "Using Programmed Play" on Page 11).

To repeat a single track, press MODE while the desired track is playing so ral appears. The CD player continuously replays the selected track.

To repeat all tracks on a CD or in a programmed sequence, repeatedly press MODE until [7] ALL appears.

When the CD player reaches the end of the CD or the programmed sequence, it returns to the first track and replays all the tracks.

To cancel repeat play, repeatedly press MODE until [2] I or [2] ALL disappears.

#### **Using Random Play**

You can have the CD player randomly play all the tracks (once in random order), then automatically stop.

To start random play, repeatedly press MODE until SHUFF appears, then press ▶11.

To start random play from the current track, repeatedly press MODE until SHUFF appears. Random play begins after the current track ends.

To cancel random play, repeatedly press MODE until SHUFF disappears.

#### **Using Programmed Play**

You can program up to 20 tracks from the loaded CD to play in any order you choose, and you can program the same track to play more than once.

- Press PROG. PROS flashes on the display.
- Press PROG again to store the selected track number and advance to the next selection number.

**Note:** If the CD is playing while programming, when you press ■ to cancel programming, the CD continues play.

 Repeat Steps 2 and 3 for each track you want to store, up to 20 tracks in all.

**Note:** If you try to store more than 20 tracks in memory, the CD player stores each consecutive track over 20 in place of the first tracks stored.

- 5. To play the programmed sequence, press ►III. The first track in the sequence plays. While the sequence plays, you can press ►III to move backward or forward in the sequence.
- After the last programmed track ends, the CD player stops. To stop the CD sooner, press ■.

You can replay the programmed sequence within 30 seconds after play stops. Otherwise, the CD player turns off and clears the programmed sequence.

To replay the programmed sequence, press PROG so PROG flashes, then press ▶■.

To review the programmed track numbers, press **PROG** repeatedly.

To clear the programmed sequence from memory, press ■ twice or open the CD compartment cover.

# LOCKING THE CONTROLS

You can protect your CD player from accidental program changes by locking all controls (except E-BASS ON/ OFF, VOL, and OPEN).

To lock the controls, slide **HOLD** in the direction of the arrow. **HOLD** appears.

To unlock the controls, slide **HOLD** in the opposite direction of the arrow.

# ☐ Troubleshooting

If you have problems operating your CD player, try these suggestions. If they do not solve the problem, contact your local RadioShack service center for assistance.

Problem	Possible Cause	Solution
The CD player does not work.	The CD player is set to <b>HOLD</b> .	Slide <b>HOLD</b> in the opposite direction of the arrow.
No power.	AC or DC adapter is not connected properly.	Make sure the AC or DC adapter is properly connected. See "Using AC or DC Power" on Page 6. If you are using the DC adapter to power the CD player, check the fuse. See "Replacing the DC Adapter's Fuse" on Page 14.
	Batteries have failed.	Install fresh batteries.
A CD is loaded, but the CD player does not start.	The CD is loaded upside-down.	Reload the CD, label side up.
	The CD is dirty or defective.	Clean the CD and reload it, or try a different CD. See "CD Care Tips" on Page 14.
The CD's sound skips.	The CD is dirty or defective.	Clean the CD and reload it, or try a different CD.
	Vibration is excessive.	Turn on the anti-shock. See "Using Super Anti- Shock System (SAS)" on Page 9.
		Place the CD player in a different location.
	Moisture has condensed on the pickup lens.	Wait 1 hour for the moisture to evaporate.

#### **CARE**

Keep the CD player dry; if it gets wet, wipe it dry immediately. Use and store the CD player only in normal temperature environments. Handle the CD player carefully; do not drop it. Keep the CD player away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the CD player's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your CD player is not performing as it should, take it to your local RadioShack store for assistance.

#### **CD Care Tips**

Even though a compact disc is durable, treat the CD surface with care.

- Do not write on either side of the CD, particularly the non-label side (signals are read from the non-label side).
- Do not store CDs in high temperature or high humidity areas.
   They might warp.
- Keep CDs dry. A water drop can act as a lens and affect the laser beam's focus.
- Always handle a CD by the edges to avoid fingerprints and always keep it in its protective case or sleeve when it is not in

use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. If the CD gets scratched, use RadioShack Scratch 'n Fix to repair the disc.

## Replacing the DC Adapter's Fuse

If you are powering the CD player with the supplied DC adapter and the player stops operating, check the fuse in the DC adapter's cigarette-lighter plug. If the fuse has blown, follow these steps to replace it with a 1-amp,  $5\times 20$  mm, fast-acting fuse (available at your local RadioShack store).

**Caution:** To avoid damaging your CD player, do not use a fuse with ratings other than those specified.

- 1. Carefully unscrew the tip of the cigarette-lighter plug.
- 2. Remove the old fuse and check it to see if it is blown. If it is blown, replace it with a new fuse.
- Thread the cigarette-lighter plug's tip back onto the adapter body.

## Specifications

### Audio Wow/Flutter ...... Not Measurable Signal Format Pick-Up Object Lens Drive System ...... 2-Dimensional Parallel Drive Optical Source ....... Semiconductor Laser General Power Requirements ...... DC 3V 2 AA Alkaline or Rechargeable Ni-Cd Batteries DC 4.5V 600mA Optional Regulated AC Adapter (not supplied) DC 4.5V 600mA Optional DC Adapter (supplied)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

#### **Limited One-Year Warranty**

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack companyowned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RAdioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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We Service What We Sell

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